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JVC

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Information for Users on Disposal of Old Equipment



[European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

Attention: This symbol is only valid in the European Union. By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

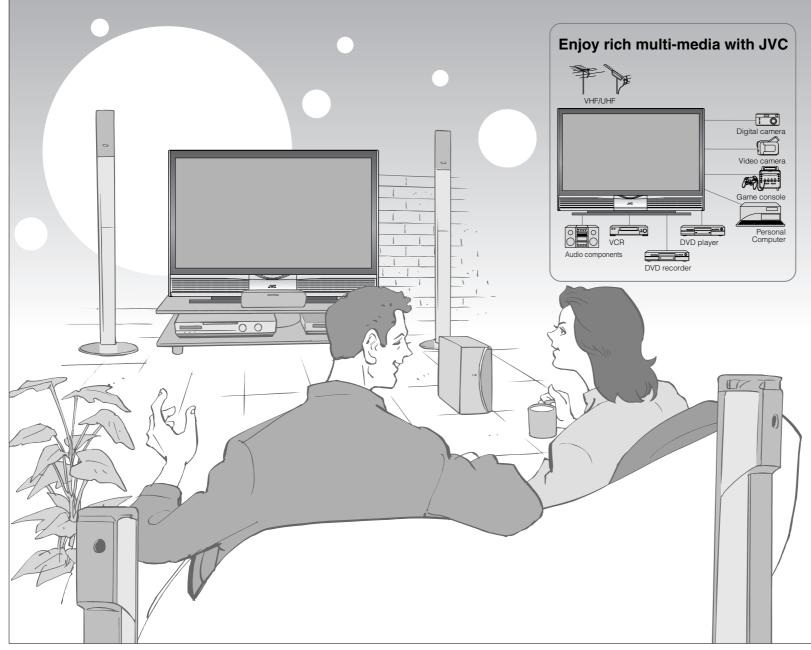
(Business users)

If you wish to dispose of this product, please visit our web page <u>www.jvc-europe.com</u> to obtain information about the take-back of the product.

[Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

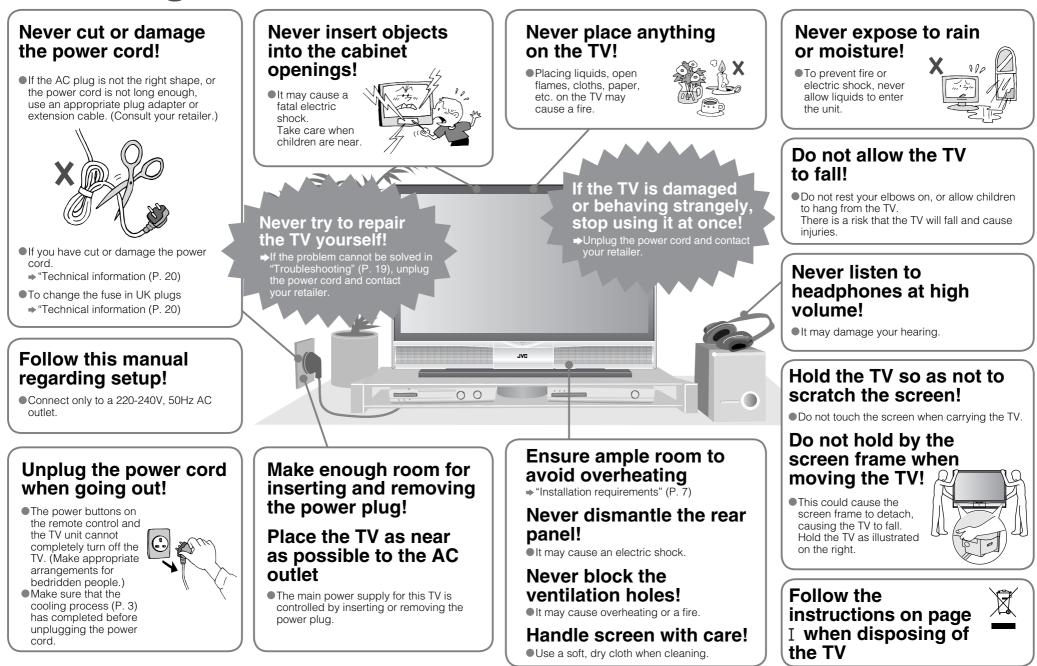
Expanding the world of beautiful images



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Warning (Please follow all the guidelines below)



Precautions (Please follow all the guidelines below)

This TV uses a lamp to project the picture on the screen. Misoperations may shorten the lamp life or cause malfunction of the lamp.

Before operating the TV, read all the instructions below.

This TV has a fan to cool the lamp

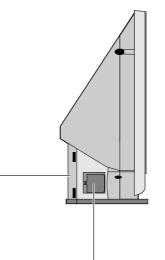
•When the lamp is hotter, the fan works harder to cool the lamp. In such a case, the noise of the fan becomes louder but it is not malfunction.

Do not place the TV too close to wallpaper

• The warm air from the air ducts may change the colour of the wallpaper.

Keep children or pets away from the air ducts

•Long exposure to the warm air from the ducts may cause a minor burn.



When the power is turned on, the warming up commences

Immediately after the TV is turned on, the picture is displayed only dimly. It takes about one minute for the lamp to warm up. Once the lamp has warmed up, you can enjoy the pictures at their normal brightness.
During this warming-up period, the LAMP indicator blinks every 2 seconds.

While the LAMP indicator is blinking, the TV cannot be turned off

When the power is turned off, the cooling down is performed

- •When the TV is turned off, the picture on the screen disappears gradually. Once the screen is dark, cooling down is performed for about 90 seconds.
- During this cooling-down period, the LAMP indicator blinks every 3 seconds.
- Do not unplug the TV while the lamp is cooling down. This may cause the internal circuits and the lamp to overheat and shorten the lamp life.

While the LAMP indicator is blinking, the TV cannot be turned on

The lamp is a consumable item

●When the lamp has blown, replace the lamp; otherwise, the picture cannot be displayed. For details → "Replacing the lamp" (P. 4, 5)

Follow the instructions on "Replacing the lamp" when replacing the lamp (P. 4)

•Handle the lamp carefully and correctly; otherwise, it may cause a burn or an electric shock. In addition, it may shorten lamp life or cause malfunction of the TV.

Never open the lamp cover except when replacing the lamp

- Exposing the lamp is dangerous because...
- The lamp becomes extremely hot while in use, it may cause a burn.
- Touching metallic portion of the lamp may cause electric shock.
 Ultraviolet rays are emitted from the lamp.

Never replace the lamp immediately after use

 Since the lamp becomes extremely hot while in use, it may cause a burn.

Never touch the lamp glass

• Dirt or oil from the finger may cause the lamp to break.

Condensation on the lamp and screen

When the heater is turned on or the TV is moved from a cold place to a warm place, droplets of water may form on the lamp and screen. This is called condensation. If the TV is used while this condensation is still present, the picture may seem distorted, and the inside of the screen may become dirty. In this case, wait until the condensation has gone before using the TV.

Do not turn the power on and off repeatedly in a short amount of time

 It subjects the TV and the lamp to stress and may lead to malfunctions and shorten the lamp life.

Do not keep the TV on for more than 24 hours consecutively

• The lamp life may be shortened.

Do not project a still picture for a long time

•Because of the ILA characteristics, still parts of the picture may remain on the screen. (The picture will disappear over time.) **IMPORTANT!**

PREPARE

For more details on installation, usage and safety - Consult your retailer

Replacing the lamp

Before replacing the lamp, read all the instructions.

Unplug the TV

Do not drop

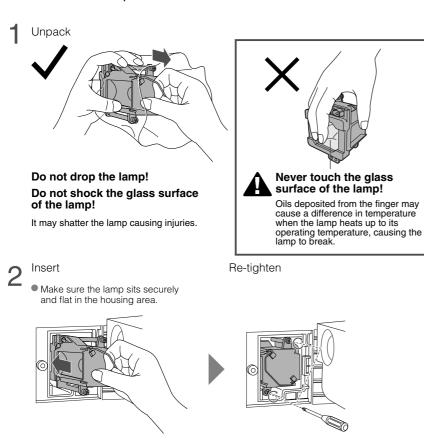
the lamp!

The TV uses a lamp to project the picture onto the screen. When the lamp has blown or when the Turn the TV off picture becomes dark, replace the lamp. Before replacing the lamp, read all the instructions carefully. Wait until the LAMP indicator stops If you feel unsure about replacing the lamp yourself - Consult your retailer blinking Preparation Prepare the Replacement Lamp Kit For purchasing the Replacement Lamp Kit, consult your retailer. QG Wait for at least 1 hour until the lamp has fully cooled Use only the specified Replacement Lamp Kit! Remove the lamp unit This lamp is for use with JVC Replacement Lamp Kit: model televisions. Using the lamp with a different television TS-CL110E Never replace the lamp before it has fully cooled! or other product could cause a High-pressure 110 V mercury lamp The lamp becomes extremely hot while in use, which may cause a burn. After turning malfunction and/or damage to off the TV, wait for at least 1 hour. the television or lamp. Never attempt to replace the lamp with the TV plugged in! Attempting to replace the lamp with the TV plugged in could lead to a severe electrical When the lamp is near to its end... shock. Remove the lamp cover The following message appears on the screen. LAMP NEEDS TO BE REPLACED. PLEASE REFER TO THE MANUAL FOR REPLACEMENT INSTRUCTIONS. To make the message disappear If you feel any warmth near the lamp, DO NOT AFTER REPLACING THE LAMP. TOUCH IT! PLEASE RESET THE TIMER IN THE TV MENU. PRESS OK. IF YOU DO NOT WANT Philips head type screw TO SEE THIS MESSAGE AGAIN. driver (cross-head type) After the usage time of the lamp has reached to 6500 hours, this Remove the lamp unit 2 message appears every time you turn on the TV. Loosen Remove Possible causes of shortened lamp life •Turning on/off the TV repeatedly in a short amount of time •Keeping the TV turned on for more than 24 hours consecutively

Δ



Install the NEW lamp unit



Reinstall the lamp cover 3 Tighten the screw.

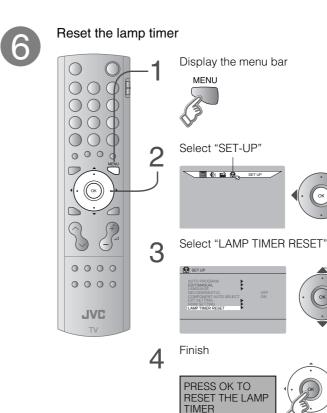
Plug in the TV (5)





Turn the TV on

If the lamp unit is not installed securely (e.g. flat in the lamp housing area), the TV won't turn on. In this case, reinstall the lamp unit.





①select

②next

@select

②next

ок



Finally, the lamp has been replaced!

Never dispose of the lamp with normal trash! A

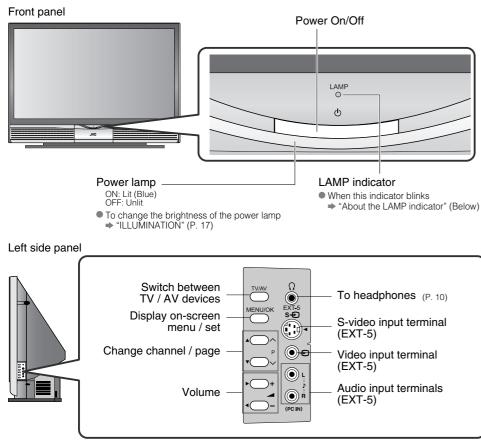
The lamp contains a small amount of mercury. For disposal or recycling information, please contact your local authorities or consult your retailer.

Dispose of it in the same way as disposing of fluorescent lamps.

■If the power lamp and LAMP indicator blink rapidly after turning on the TV → "Lamp" (P. 20)

TROUBLE?

Names of all the parts

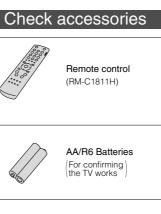


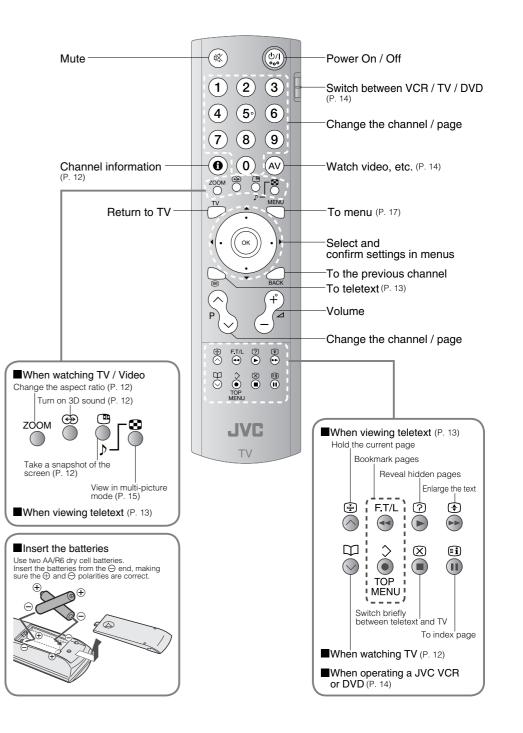
● Connecting terminals on the back of the TV ⇒ "Connecting External devices" (P. 10)

About the LAMP indicator

The LAMP indicator blinks as follows.

- When turning on the TV, the LAMP indicator blinks for about 1 minute every 2 seconds.
- The lamp is warming up. During this period, the TV cannot be turned off.
- After turning off the TV, the LAMP indicator blinks in orange for about 90 seconds every 3 seconds.
- Cooling is performed. During the cooling period, the TV cannot be operated.
- If the LAMP indicator blinks rapidly



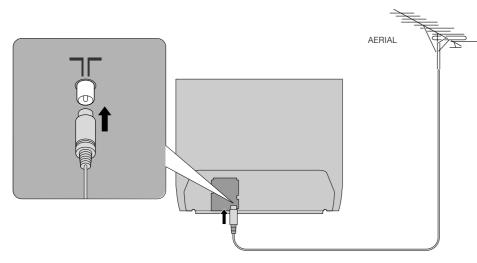


Basic connections

Please read the user manuals of each device carefully before setup. It is necessary to connect an aerial to watch TV.

■Connect with other devices → "Connecting external devices" (P. 10)

Connect the aerial



• After all the connections have been made, insert the plug into an AC outlet.

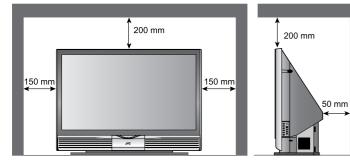
Care when setting

Power requirements

• Connect the power cord only to a 220-240V, 50Hz AC outlet.

Installation requirements

• To avoid overheating, ensure the unit has ample room.



Do not place the TV too close to wallpaper

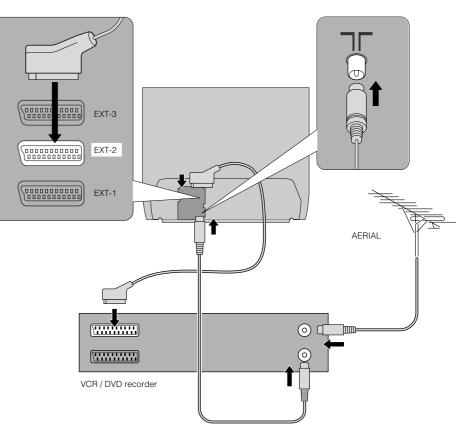
• The warm air from the air ducts may change the colour of the wallpaper.

Keep children or pets away from the air ducts

•Long exposure to the warm air from the ducts may cause a minor burn.

Connect a VCR / DVD recorder

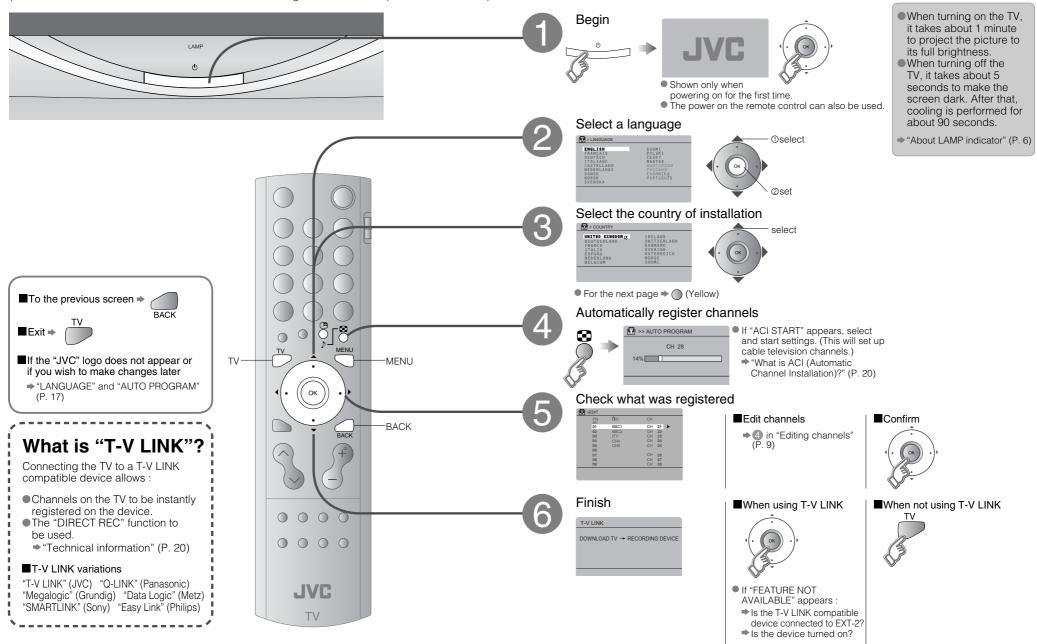
Connect T-V LINK compatible recording device to EXT-2.
 T-V LINK ➡ "What is T-V LINK?" (P. 8)



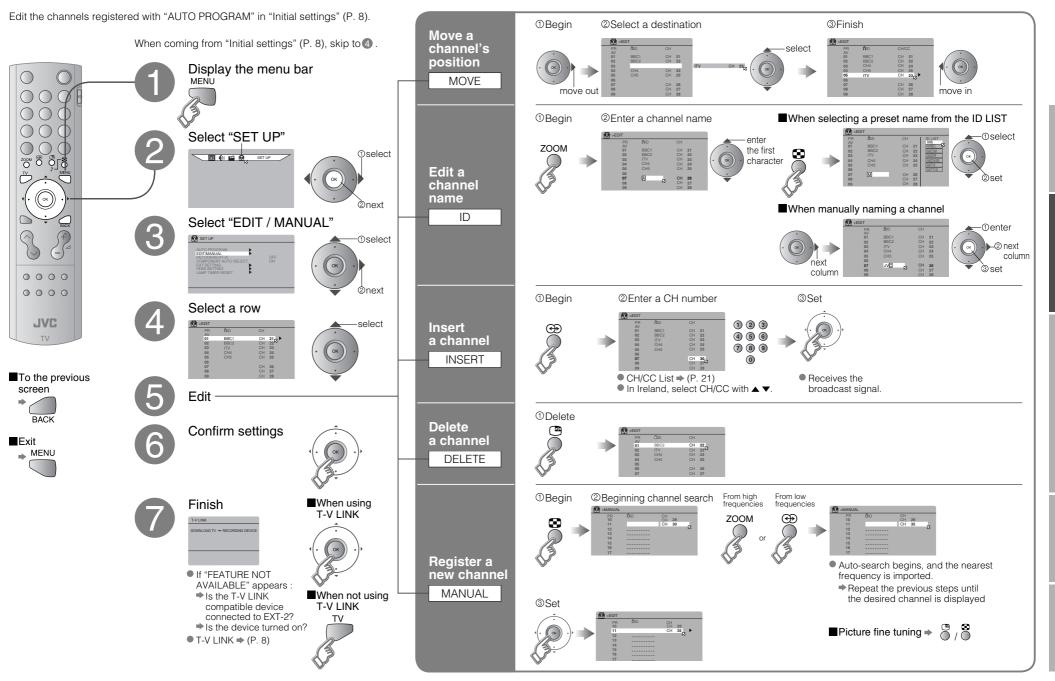
• After all the connections have been made, insert the plug into an AC outlet.

Initial settings

Set the menu language, installation location and automatically register the TV channels. These channels can be edited later in "Editing channels" (P. 9). (Channel data on the TV can be sent to a connected recording device that is compatible with T-V LINK.)



Editing channels



TROUBLE?

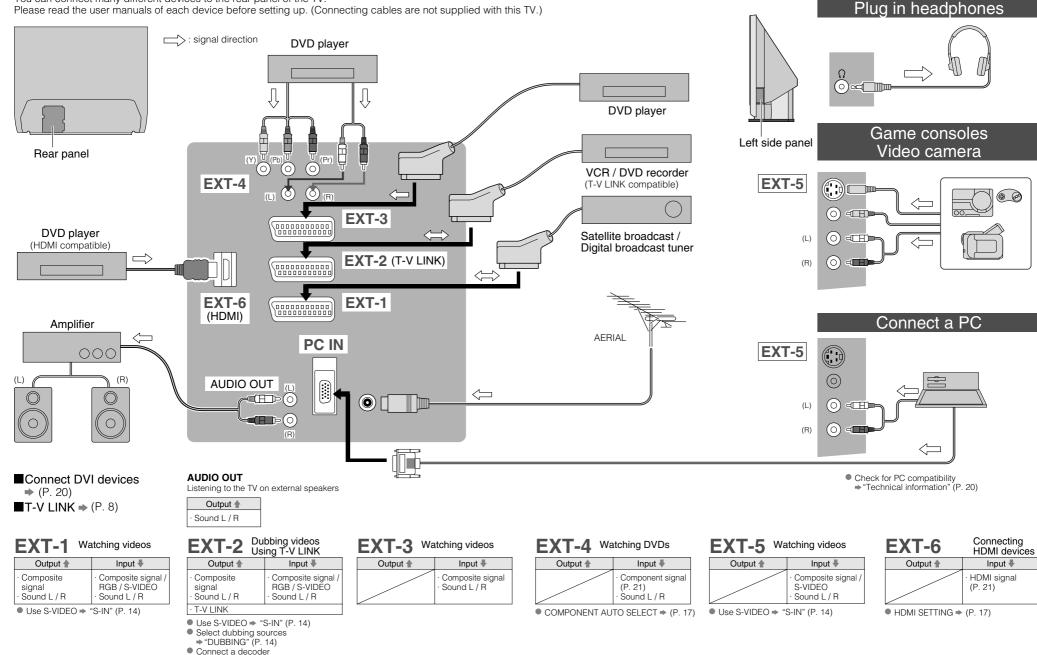
SETTINGS

IMPORTANT!

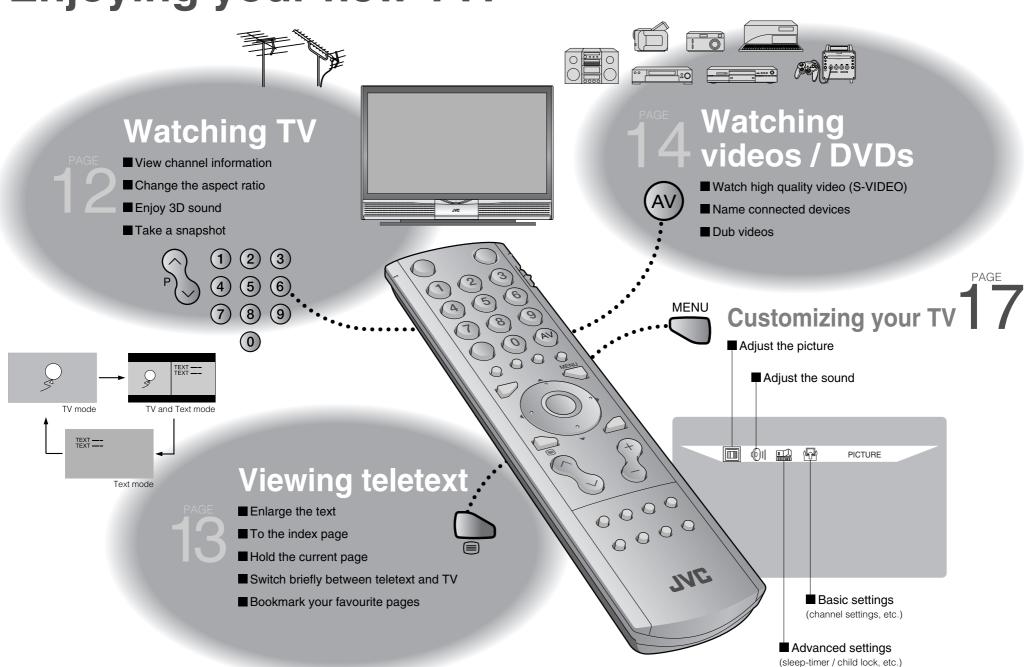
PREPARE

Connecting external devices VCR / DVD / other devices

You can connect many different devices to the rear panel of the TV. Please read the user manuals of each device before setting up. (Connecting cables are not supplied with this TV.)

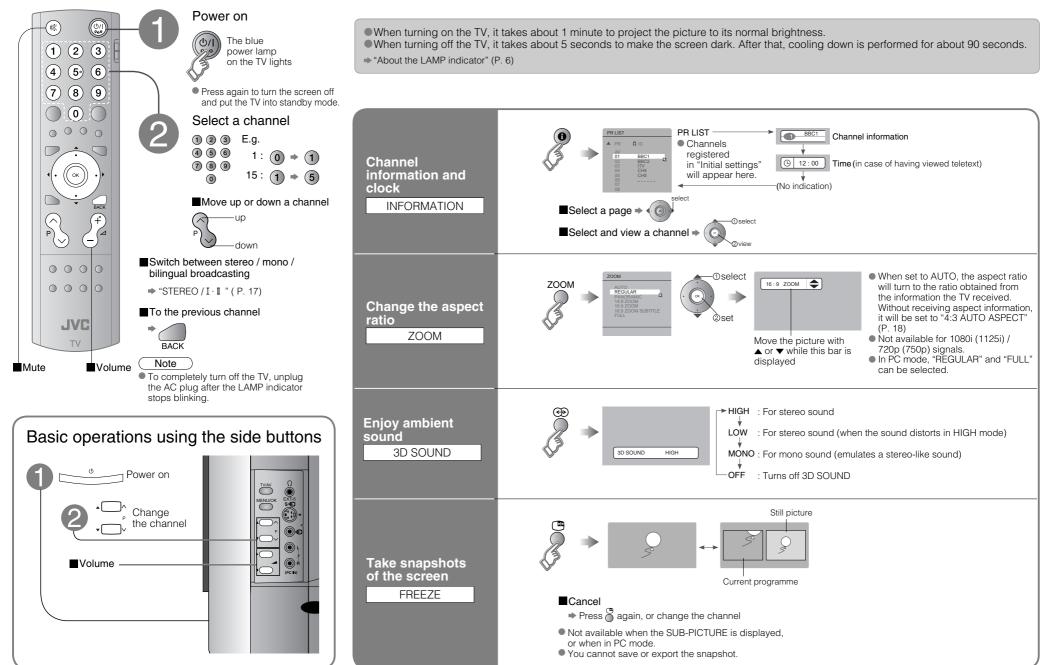


Enjoying your new TV!



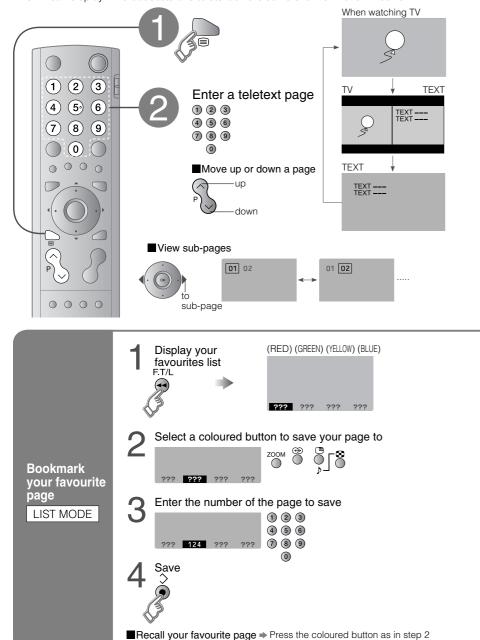
TROUBLE?

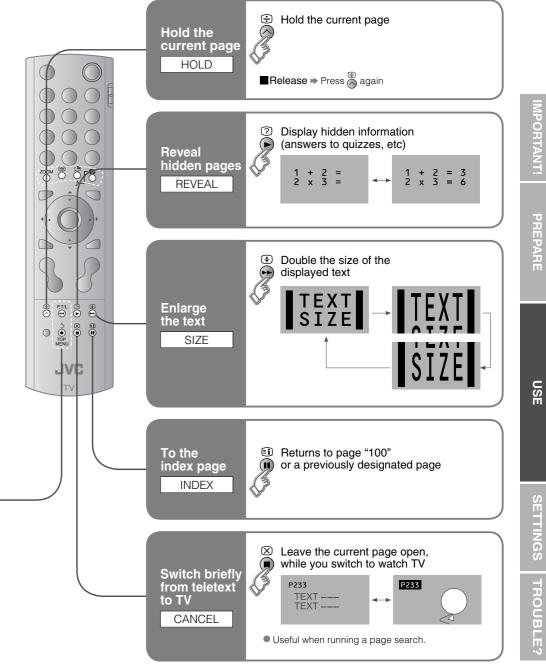
Watching TV



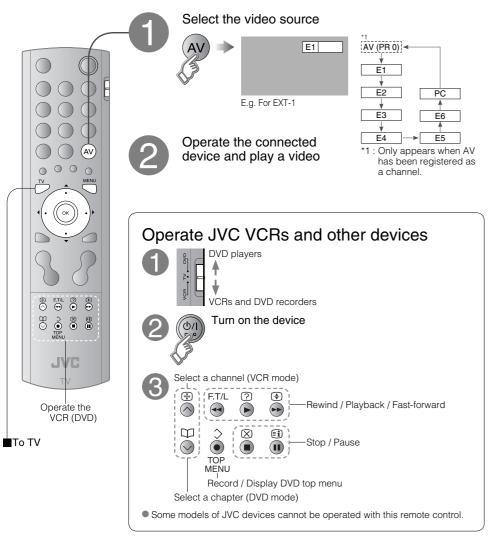
Viewing teletext

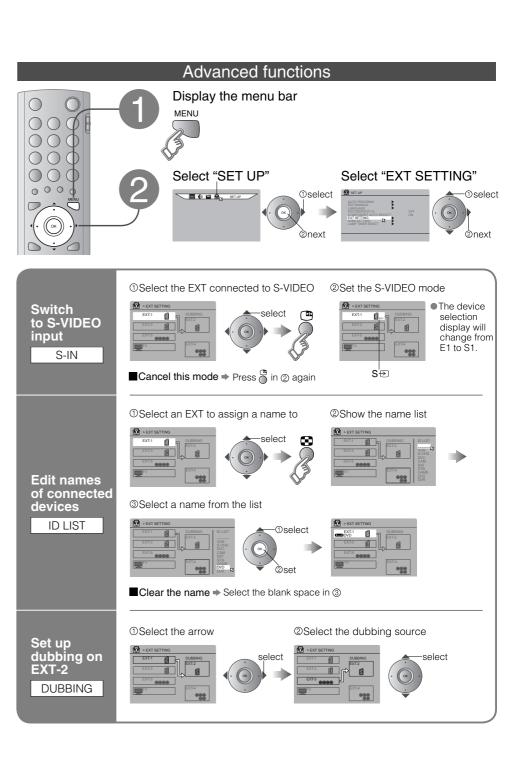
This TV can display TV broadcasts and teletext on the same channel in two windows.



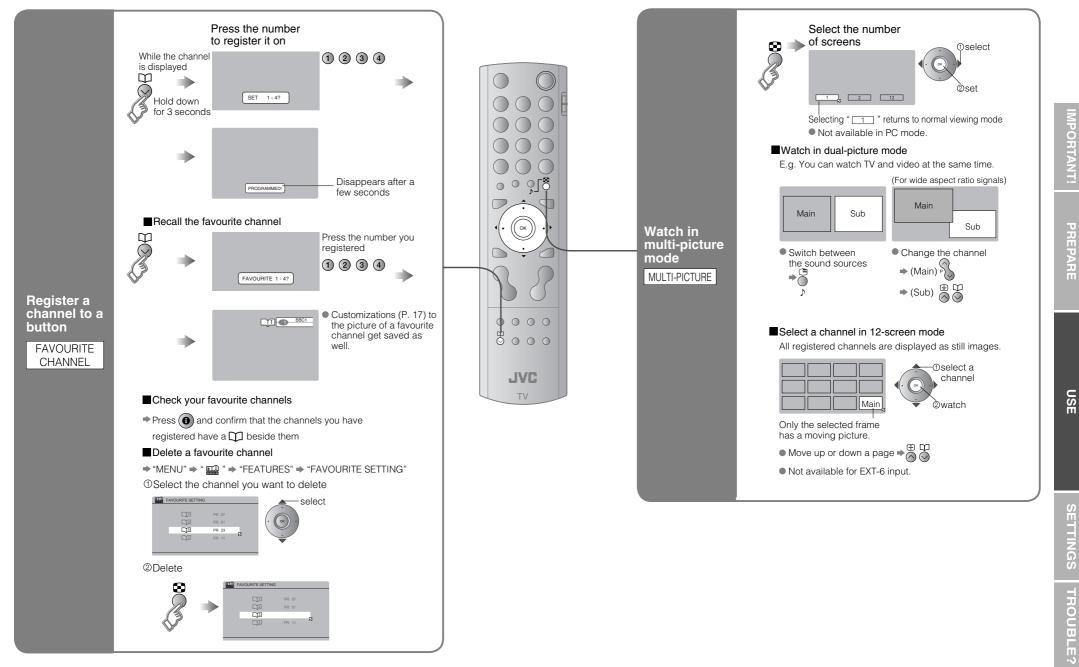


Watching videos / DVDs



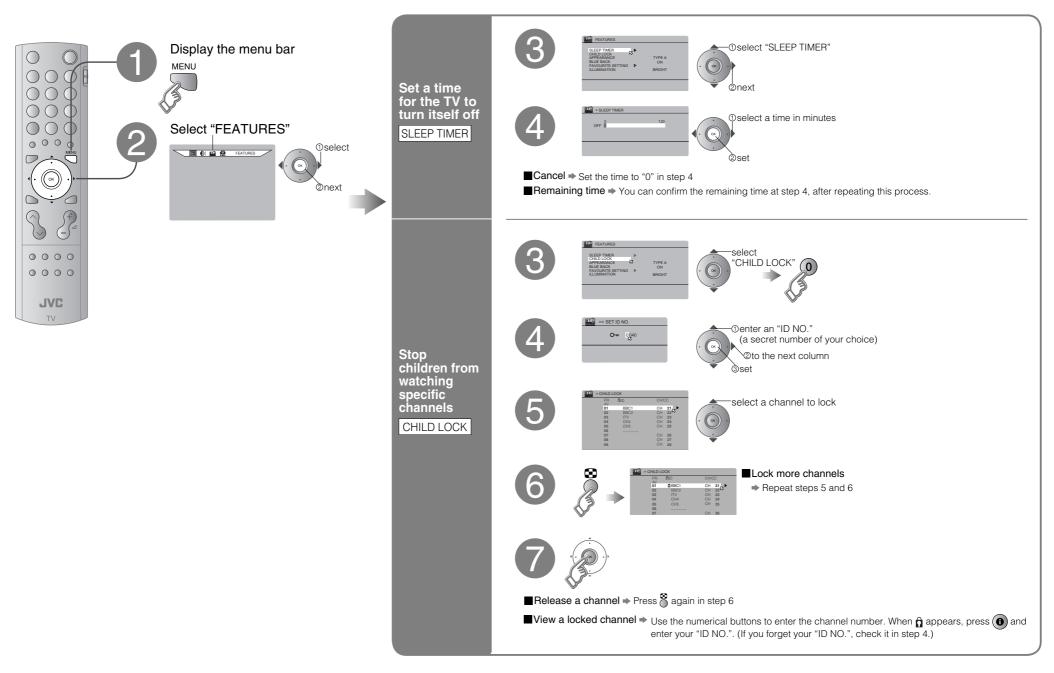


Useful functions

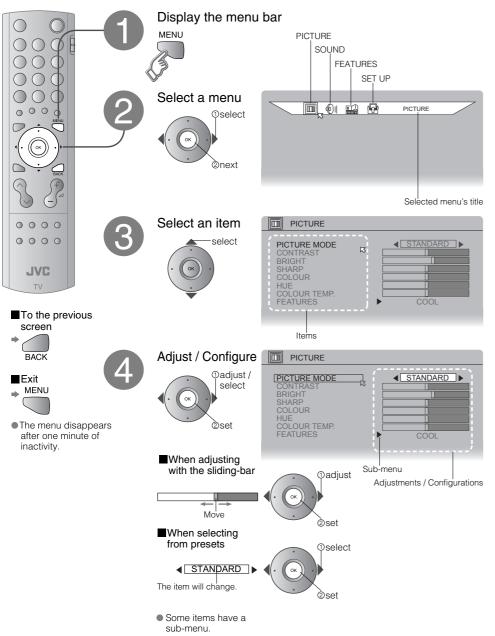


USE

Useful functions (continued)



Customizing your TV



Menu	Item	Adjustments / Configurations
PICTURE	PICTURE MODE	Picture mode (BRIGHT / STANDARD / SOFT)
	CONTRAST	Contrast (Lower ⇔ Higher)
	BRIGHT	Brightness (Darker ⇔ Brighter)
ы	SHARP	Sharpness (Softer ⇔ Sharper)
H	COLOUR	Colour (Lighter ⇔ Deeper)
H	HUE	Tint for NTSC (Reddish \Leftrightarrow Greenish)
Ē	COLOUR TEMP.	Colour temperature (WARM / NORMAL / COOL)
	FEATURES	Finer picture adjustments (P. 18)
	STEREO / I · I	Mode / Language (∞ : STEREO / \circ : MONO / I : SUB1 / I : SUB2)
0	BASS	Low tones (Weaker \Leftrightarrow Stronger)
SOUND	TREBLE	High tones (Weaker \Leftrightarrow Stronger)
Ĕ	BALANCE	Speaker balance (Left Stronger \Leftrightarrow Right Stronger)
Z	3D SOUND	Ambience level (HIGH / LOW / MONO / OFF)
0	BBE *1	Sound enhancement technology (ON / OFF)
П	SLEEP TIMER	Timer for turning off the TV (P. 16)
	CHILD LOCK	Stops children from watching specific channels (P. 16)
FEATURES	APPEARANCE	Format for displaying the channel number (TYPE A / TYPE B / TYPE C / TYPE D)
TUF	BLUE BACK	Displays a blue screen and mutes the sound when the signal is weak or absent (ON / OFF)
Ē	FAVOURITE SETTING	Clear favourite channel settings (P. 15)
0)	ILLUMINATION	Changes brightness of the power lamp (P. 6) (BRIGHT / SOFT)
	AUTO PROGRAM	Select a country, it automatically registers channels (P. 8, 3)
	EDIT / MANUAL	Change registered channels or add new ones (P. 9)
	LANGUAGE	Select a language for on-screen menus (P. 8, 2)
SET UP	DECODER(EXT-2)	For when connected to VCR with T-V LINK (ON / OFF)
	COMPONENT AUTO SELECT	Changes the TV input to EXT-4 when a component signal is input to EXT-4 (ON / OFF) (Not available when viewing PC)
	EXT SETTING	For use with video players and other devices (P. 14)
	HDMI SETTING	SIZE (AUTO / 1 / 2) AUDIO (AUTO / ANALOGUE / DIGITAL)
	LAMP TIMER RESET	Resets the lamp timer (P. 5)

*1 BBE license **+** (P. 20)

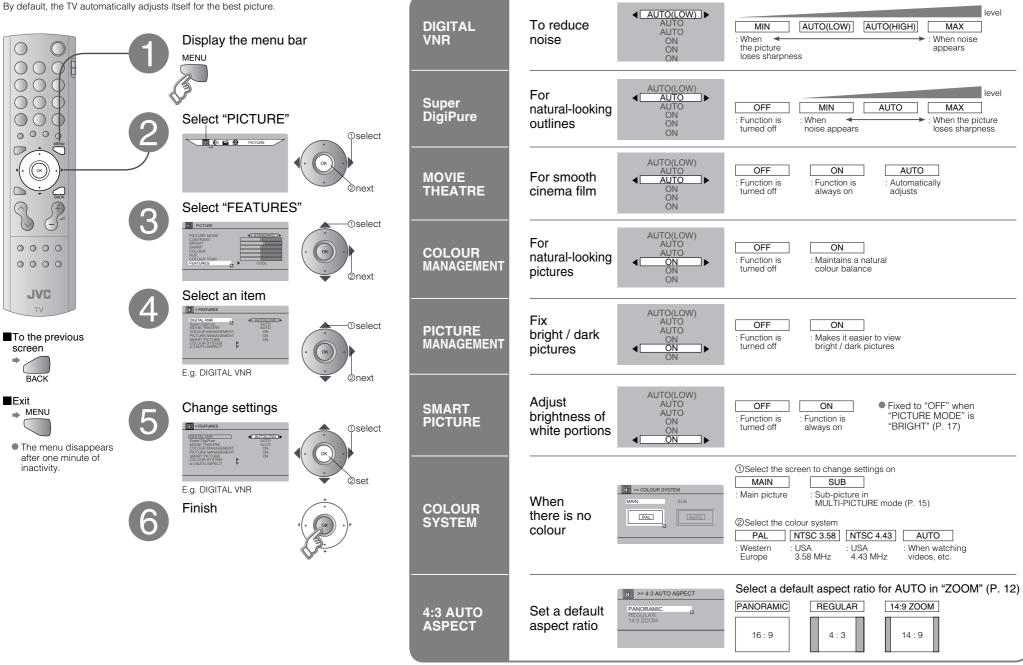
PREPARE

USE

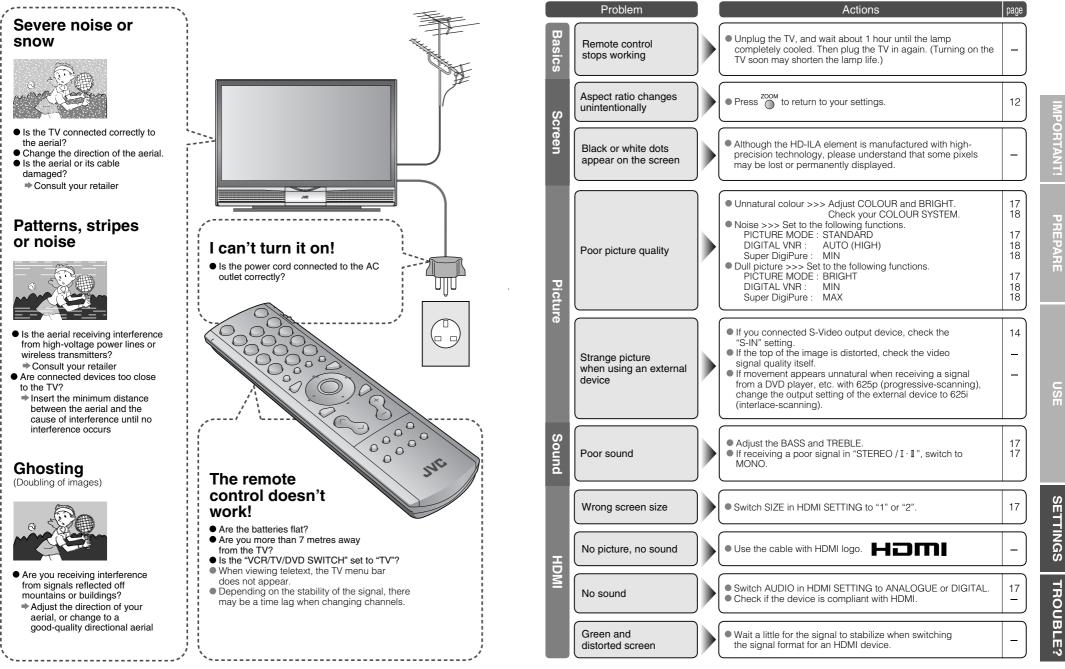
SETTINGS

TROUBLE?

Advanced picture adjustment



Troubleshooting



Troubleshooting (continued)

	Problem	Actions	page
Functions	Some functions do not work	 It is not a malfunction. Some functions (dark background) in the menu do not work depending on the situation. 	_
	Some inputs cannot be selected in the sub-picture	 EXT-4, EXT-6 inputs and PC mode cannot be selected in the sub-picture. 	_
Display	"FEATURE NOT AVAILABLE" appears	 Is the T-V LINK compatible device connected to EXT-2? Is the SCART CABLE "Fully Wired"? Is the T-V LINK compatible device turned on? After confirming all the conditions above, press "OK" button again. 	21 21 -
	"ACI ERROR" appears	 Press	_
Lamp	The LAMP indicator blinks rapidly	• Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (It may be a malfunction of the internal electrical circuits.)	-
	The power lamp and LAMP indicator blink alternately	• Keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (The inside temperature rises abnormally or the fan may be blocked.)	_
	The power lamp and LAMP indicator blink rapidly simultaneously	 If this condition occurs soon after replacing the lamp, reinstall the new lamp unit. (The lamp unit may not be inserted into the lamp housing correctly.) Repeat the lamp installation steps, taking care to observe all warnings. Make sure the lamp sits flat inside the housing area. Make sure the lamp cover is reinstalled. If this condition occurs except for replpacing the lamp, keep the TV off for a while and then turn the power on again. If the TV goes into warning mode, unplug the TV after the cooling has completed and consult your retailer. (It may be a lamp malfunction.) 	6

Technical information

What is T-V LINK?

T-V LINK allows the TV to share information easily with a connected T-V LINK compatible device. By using T-V LINK :

- You can send the channel information programmed on the TV to the T-V LINK compatible device, so that both the TV and the external device have the same channel settings. When connecting a new external device, channel information is loaded into it, allowing channel setup to be completed very quickly. For more details, refer to the external device's manual.
- You can easily record the TV programme you are viewing on a T-V LINK compatible device by using the "DIRECT REC" feature. For more details, refer to the external device's manual.

What is ACI (Automatic Channel Installation)?

Some cable companies transmit a signal called ACI which contains information that allows TV channels to be registered automatically on your TV.

When an ACI signal is received, "ACI START / ACI SKIP" appears in the "AUTO PROGRAM" screen.

PC Signals that can be displayed

Macintosh computers are not supported. (Macintosh is a registered trademark of Apple Computer, Inc.)

 If the signal doesn't appear, check that the vertical frequency on the PC is set to 60 Hz.

Resolution	640 x 480 (VGA)	1024 x 768 (XGA)
Vertical frequency (Hz)	60.0	60.0
Horizontal frequency (kHz)	31.5	48.4

Connect DVI devices

Connect a DVI device to EXT-6 (HDMI) using DVI-HDMI conversion cable. Connect analogue sound output of the DVI device to L and R terminals in EXT-4.

● Set AUDIO in HDMI SETTING to Analogue or AUTO → (P. 17)

If you accidentally cut the power cord

 Never connect to the larger terminal marked with an "E", the safety earth symbol "±" or coloured green or green-and-yellow.

- The wires in the mains lead on this product are coloured with the following code:
- 1)Blue: Neutral wire (connect to the black terminal, or one marked "N")

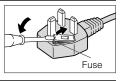
2)Brown: Live wire (connect to the red terminal,or one marked "L")

Change the fuse in the plug

Open the plug as illustrated on the right.

When replacing the fuse, always use a correctly rated and approved type and re-fit the fuse cover when finished.

If in doubt, contact your retailer.



Licence

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CH/CC List

To use the INSERT function (P.9), find the CH/CC number corresponding to the TV's channel number from this table. If you want to know a particular TV channel's channel menu, look in TV listings magazines or contact the broadcaster.

• When the COUNTRY setting is "UNITED KINGDOM", the CC number channels and channels from CH02 to CH12 cannot be received.

CH 02 E2, IR A1 CH 40 E40 CC 01 S1 CH 03 E3, IR B CH 41 E41 CC 02 S2 CH 04 E4, IR C CH 42 E42 CC 03 S3 CH 05 E5, IR D CH 43 E43 CC 04 S4 CH 06 E6, IR E CH 44 E44 CC 05 S5 CH 07 E7, IR F CH 45 E45 CC 08 S8 CH 09 E9 CH 47 E47 CC 08 S8 CH 10 E10, IR H CH 48 E48 CC 09 S9 CH 12 E12 CH 50 E50 CC 11 S11 CH 21 E21 CH 51 E51 CC 10 S10 CH 22 E22 CH 52 E52 CC 13 S13 CH 23 E23 CH 56 E55 CC 16 S16 CH 24 E24 CH 56 E55 CC 16 S16 CH 25 E28	CH	Channel	СН	Channel	CC	Channel
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 02	E2, IR A1	CH 40	E40	CC 01	S1
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 03	E3, IR B	CH 41	E41	CC 02	S2
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 04	E4, IR C	CH 42	E42	CC 03	S3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 05	E5, IR D	CH 43	E43	CC 04	S4
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 06	E6, IR E	CH 44	E44	CC 05	S5
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 07	E7, IR F	CH 45	E45	CC 06	S6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 08	E8, IR G	CH 46	E46	CC 07	S7
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 09	E9	CH 47	E47	CC 08	S8
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 10	E10, IR H	CH 48	E48	CC 09	S9
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	CH 11	E11, IR J	CH 49	E49	CC 10	S10
CH 22 E22 CH 52 E52 CC 13 S13 CH 23 E23 CH 53 E53 CC 14 S14 CH 24 E24 CH 53 E53 CC 15 S15 CH 25 E25 CH 56 E56 CC 16 S16 CH 26 E26 CH 56 E56 CC 17 S17 CH 27 E27 CH 57 E57 CC 18 S18 CH 28 E28 CH 58 E56 CC 20 S20 CH 30 E30 CH 60 E60 CC 21 S21 CH 31 E31 CH 61 E61 CC 22 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 33 E33 CH 62 E62 CC 23 S23 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 67	CH 12	E12	CH 50	E50	CC 11	S11
CH 23 E23 CH 53 E53 CC 14 S14 CH 24 E24 CH 54 E54 CC 15 S15 CH 25 E25 CH 55 E55 CC 16 S16 CH 26 E26 CH 57 E57 CC 18 S18 CH 28 E28 CH 58 E58 CC 19 S19 CH 29 E29 CH 61 E61 CC 20 S20 CH 31 E31 CH 62 E62 CC 24 S24 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S23 CH 35 E35 CH 65 E65 CC 26 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 36 E36 CH 65 E65 CC 26 S26 CH 35 E36 CH 65 E66 CC 27 S27 CH 37 E37 CH 67	CH 21	E21	CH 51	E51	CC 12	S12
CH 24 E24 CH 54 E54 CC 15 S15 CH 25 E25 CH 55 E55 CC 16 S16 CH 26 E26 CH 56 E56 CC 16 S16 CH 27 E27 CH 57 CC 18 S18 CH 28 E28 CH 59 E59 CC 20 S20 CH 30 E30 CH 61 E61 CC 22 S22 CH 31 E31 CH 62 E62 CC 24 S24 CH 33 E33 CH 63 E63 CC 26 S23 CH 36 E36 CH 63 E63 CC 26 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E36 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68	CH 22	E22	CH 52	E52	CC 13	S13
CH 25 E25 CH 55 E55 CC 16 S16 CH 26 E26 CH 56 E56 CC 17 S17 CH 27 E27 CH 57 E57 CC 18 S18 CH 28 E28 CH 58 E58 CC 19 S19 CH 29 E29 CH 60 E60 CC 21 S21 CH 30 E30 CH 61 E61 CC 22 S22 CH 32 E32 CH 62 E62 CC 23 S23 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 64 E64 CC 25 S25 CH 36 E36 CH 66 E65 CC 26 S26 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 23	E23	CH 53	E53	CC 14	S14
CH 26 E26 CH 56 E56 CC 17 S17 CH 27 E27 CH 57 E57 CC 18 S18 CH 28 E28 CH 58 E58 CC 19 S19 CH 30 E30 CH 60 E60 CC 20 S20 CH 31 E31 CH 61 E61 CC 23 S23 CH 34 E34 CH 64 E64 CC 26 S24 CH 35 E35 CH 65 E65 CC 26 S25 CH 36 E36 CC 27 S27 S27 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 36 E38 CH 68 E68 CC 29 S29	CH 24	E24	CH 54	E54	CC 15	S15
CH 27 E27 CH 57 E57 CC 18 S18 CH 28 E28 CH 58 E58 CC 19 S19 CH 29 E29 CH 59 E59 CC 20 S20 CH 31 E31 CH 61 E61 CC 22 S22 CH 33 E33 CH 64 E62 CC 24 S24 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 64 E64 CC 26 S24 CH 36 E36 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 25	E25	CH 55	E55	CC 16	S16
CH 28 E28 CH 58 E58 CC 19 S19 CH 29 E29 CH 59 E59 CC 20 S20 CH 30 E30 CH 60 E60 CC 21 S21 CH 31 E31 CH 61 E61 CC 23 S22 CH 32 E32 CH 62 E62 CC 23 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 27 S27 CH 36 E36 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 26	E26	CH 56	E56	CC 17	S17
CH 29 E29 CH 59 E59 CC 20 S20 CH 30 E30 CH 60 E60 CC 21 S21 CH 31 E31 CH 61 E61 CC 23 S23 CH 32 E32 CH 62 E62 CC 23 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 27	E27	CH 57	E57	CC 18	S18
CH 30 E30 CH 60 E60 CC 21 S21 CH 31 E31 CH 61 E61 CC 22 S22 CH 32 E32 CH 62 E62 CC 23 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 28	E28	CH 58	E58	CC 19	S19
CH 31 E31 CH 61 E61 CC 22 S22 CH 32 E32 CH 62 E62 CC 23 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 65 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 29	E29	CH 59	E59	CC 20	S20
CH 32 E32 CH 62 E62 CC 23 S23 CH 33 E33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 30	E30	CH 60	E60	CC 21	S21
CH 33 CH 63 E63 CC 24 S24 CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 31	E31	CH 61	E61	CC 22	S22
CH 34 E34 CH 64 E64 CC 25 S25 CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 32	E32	CH 62	E62	CC 23	S23
CH 35 E35 CH 65 E65 CC 26 S26 CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 33	E33	CH 63	E63	CC 24	S24
CH 36 E36 CH 66 E66 CC 27 S27 CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 34	E34	CH 64	E64	CC 25	S25
CH 37 E37 CH 67 E67 CC 28 S28 CH 38 E38 CH 68 E68 CC 29 S29	CH 35	E35	CH 65	E65	CC 26	S26
CH 38 E38 CH 68 E68 CC 29 S29	CH 36	E36	CH 66	E66	CC 27	S27
	CH 37	E37	CH 67	E67	CC 28	S28
CH 39 E39 CH 69 E69 CC 30 S30	CH 38	E38	CH 68	E68	CC 29	S29
	CH 39	E39	CH 69	E69	CC 30	S30

	CC	Channel
	CC 31	S31
	CC 32	S32
	CC 33	S33
	CC 34	S34
	CC 35	S35
	CC 36	S36
	CC 37	S37
	CC 38	S38
	CC 39	S39
	CC 40	S40
	CC 41	S41
	CC 75	Х
_	CC 76	Y
	CC 77	Z
	CC 78	Z+1
	CC 79	Z+2

COUNTRY setting

Depending on the country selected during "AUTO PROGRAM', the receivable broadcast system differs.

	UNITED KINGDOM	FRANCE	Other countries
Broadcast system	CCIR I only	CCIR I, B, G, D, K, L	CCIR I, B, G, D, K
Colour system	PAL only	PAL, SECAM	PAL, SECAM
Sound multi-plex system	NICAM (I) only	NICAM, A2	NICAM, A2

To change "COUNTRY" setting: 1) Change the "COUNTRY" in "AUTO PROGRAM".

2) Press the "BACK" button to return to the menu and set the channel using "MANUAL".

• If the sound is poor, change to the correct broadcast system using > button.

Specifications

Main unit					
Model	HD-70ZR7J	HD-56ZR7J			
Broadcasting systems	CCIR I (See "COUNTRY setting" on this	page)			
Colour systems	PAL (See "COUNTRY setting" on this pa The EXT terminals also support the NTSC				
Channels and frequencies	E21-E69 (UNITED KINGDOM) IR A-J, E2-E12, E21-E69 (IRELAND)				
Sound-multiplex systems	NICAM (I) (See "COUNTRY setting" on this page)				
Teletext systems	FLOF (Fastext), TOP, WST (standard system)				
Power requirements	AC 220 V - 240 V, 50 Hz				
Audio output (Rated power output)	10 W + 10 W				
Speakers	10 cm round x 2				
Power consumption [standby]	179 W [2.6 W]				
Screen size (visible area size measured diagonally)	178 cm	142 cm			
Dimensions (W x H x D: mm)	1626 x 1167 x 519	1318 x 968 x 439			
Weights	69 kg	42 kg			
Accessories	(See "Check accessories", P. 6)				

Terminals / Connectors						
Terminal name		Terminal type	Signal type (IN)	Signal type (OUT)	Notes	
Input / Output terminals	EXT-1	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analog RGB AUDIO L / R	TV out		
	EXT-2	Euroconnector x 1 (SCART connector)	Composite video, S-video, Analog RGB AUDIO L / R	Dubbing out	T-V LINK compatible	
Input terminals	EXT-3	Euroconnector x 1 (SCART connector)	Composite video AUDIO L / R			
	EXT-4	RCA connectors x 5	Analogue component (576i (625i) / 480i (525i), Progressive : 576p (625p) / 480p (525p), HD : 1080i (1125i), 720p (750p)) AUDIO L / R			
	EXT-5	RCA connectors x 3, S-VIDEO connector x 1	Composite video, S-video AUDIO L / R			
	EXT-6	HDMI connector x 1	HDMI (576i (625i) / 480i (525i) / 576p (625p) / 480p (525p), 1080i (1125i), 720p (750p))			
	PC IN	D-SUB (15 pins) x 1	Analogue PC signal (P. 21)			
Output terminals	AUDIO OUT	RCA connectors x 2		Audio L / R		
	Headphone	Stereo mini-jack x 1 (3.5 mm in diameter)		Headphone output		

• We may change the design and specifications without notice.

JVC

For users in the UK :

If you have any problems setting up your new TV, please call the **JVC** Helpline on **0870 330 5000**.

For users in the Republic of Ireland : If you have any problems setting up your new TV, please call the **JVC** Helpline on **1890-582500**.